INTERNATIONAL SEARCH REPORT

Interna pplication No PCT/EP 03. 76

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A63849/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) $IPC \ 7 \qquad A63B$

Documentation searched other than minimum documentation to the extent that such documents are included. In the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|---|
| X | EP 0 497 561 A (RUBBERMADE ACCESSORIES) 5 August 1992 (1992-08-05) cited in the application | 1-4,6,8, 14,15, 17-24 |
| Y A | the whole document | 9,13 16 |
| Y | JP 60 168473 A (AJIA WAASU KK) 31 August 1985 (1985-08-31) | 9,13 |
| A | figures | 1-6,8, 18-24 |
| X | US 5 106 086 A (ACOSTA) 21 April 1992 (1992-04-21) | 1,2,4,5, 7,10,12, 14, 17-22,24 |
| A | column 2, line 39 -column 3, line 34; figures 1-6 | 15,16 |
| | -/ | |

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|---|--|
| *A' document defining the general state of the art which is not considered to be of particular relevance *E' earlier document but published on or after the international filling date *L' document which may throw doubts on priority claim(s) or which is clied to establish the publication date of another citation or other special reason (as specified) *O' document referring to an oral disclosure, use, exhibition or other means *P' document published prior to the international filling date but tater than the priority date claimed | "T' later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention." "X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone. "Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "8" document member of the same patent family |
| Date of the actual completion of the International search 22 December 2003 | Date of mailing of the international search report 05/01/2004 |
| Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016 | Authorized officer Williams, M |

INTERNATIONAL SEARCH REPORT

Interns uplication No
PCT/EY U3/

| C./Continu | etion) DOCUMENTS CONSIDERED TO BE RELEVANT | |
|------------|---|-------------------------------|
| Category * | Citation of document, with Indication, where appropriate, of the relevant passages | Relevant to claim No. |
| A | US 5 797 812 A (LIU) 25 August 1998 (1998-08-25) the whole document | 1,2,4,6, 8,10, 18-22,24 |
| A | FR 2 725 908 A (BIANCHI) 26 April 1996 (1996-04-26) | 1-6, 8-11,13, 18-24 |
| | the whole document | |
| Α | US 4 575 083 A (ADAM) 11 March 1986 (1986-03-11) column 2, line 13 - line 68; figures 1,2 | 1-6,8,9, 18-24 |
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INTERNATIONAL REPORT

Internat pplication No
PCT/Er U3/6

| Patent document cited in search report | | Publication date | Patent family member(s) | | Publication date _ |
|---|---|------------------|----------------------------|---|--|
| EP 0497561 | A | 05-08-1992 | US AT DE DE EP | 5096194 A 128371 T 69205018 D1 69205018 T2 0497561 A1 | 17-03-1992 15-10-1995 02-11-1995 07-03-1996 05-08-1992 |
| JP 60168473 | Α | 31-08-1985 | NONE | | |
| US 5106086 | Α | 21-04-1992 | NONE | | |
| US 5797812 | Α | 25-08-1998 | JP | 10225535 A | 25-08-1998 |
| FR 2725908 | Α | 26-04-1996 | FR | 2725908 A1 | 26-04-1996 |
| US 4575083 | Α | 11-03-1986 | DE AU AU CA | 3324142 A1 578190 B2 3028384 A 1230354 A1 | 24-01-1985 13-10-1988 10-01-1985 15-12-1987 |